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(54) Title: **AN ILLUMINATION SYSTEM FOR MICROLITHOGRAPHY**

(57) Abstract: The present invention relates to an illumination system for microlithography, especially for wavelengths ≤ 193 nm, especially preferably for EUV lithography for illuminating a field in a field plane with at least one optical integrator which splits up a light bundle emitted by a light source into a plurality of light channels each having a light intensity, characterized in that a filter is provided in the light path from the light source to the field plane, with the filter comprising filter elements which are configured in such a way that the light intensity of at least one light channel is reduced in the light path after the filter element.

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